BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK:- Modified Estimate For Construction of Samudaya Bhavan and other Civil works at Shivamandira Road in Ward No 02 of Yelahanka sub division

Modified Cost RS. 77.06 Lakh,s

A. ROAD

S. No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
1	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 5km lead= (I No-19.14,P No-143)	Cum							
	For CC Road:-N-LIG 4th Block Back		1	22.00	20.00	0.20	88.00		
			1	8.00	5.00	0.15	6.00		
			1	8.00	6.00	0.15	7.20		
			1	20.00	12.00	0.20	48.00		
			1	10.00	8.00	0.20	16.00		
	Debries Removal		1	17.80	15.10	0.45	120.95		
			1	14.80	9.50	0.40	56.24		
							342.39		
		A)Up to125% of quantity					187.64	58.99	11069.00
		B)Above 125% of quantity					154.75	45.57	7052.00
	Basic Rate	41.00							
	Area Weightage 6%	2.46							
	Sub Total	43.46							
	Add +4.85% Above asTender premium	2.11							
	Total Rs	45.57							
2	KSRRB M100-1 Loading and un loading of stoneboulder/Stoncaggregates/sand/kanker/Moorum.KSRRB M100-1:Placing tipper at loading point,loading with front end loader,dumping,turning for return trip,excluding time for haulage and return trip complete as per specifications (P.No.136, I.No.17.1 of PW,P&IWTD SR 2018-19).	Cum							
			Vide Item No. 1				342.39	68.72	23529.00
	Basic Rate	57.00							
	Lead Charges(2km X 1.28 X 2)	5.12							
	Total	**62.12**							
	Area Weightage @ 6%	3.42							
	SubTotal	**65.54**							
	Add +4.85% Above asTender premium	3.18							
	Total Rs	**68.72**							
3	KSRRB 300-58. **Compaction of original ground** by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.(I No-19.64,P No-147)	Sqm							
	For CC Road:-N-LIG 4th Block Back		1	22.00	20.00		440.00		
			1	8.00	5.00		40.00		
			1	8.00	6.00		48.00		
			1	20.00	12.00		240.00		
			1	10.00	8.00		80.00		
							848.00	6.67	5656.16

4	KSRB 4-1.2 . Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregtes @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2 **(P.No.13,I.No.4.2 of PW,P&IWTD SR 2018-19)**	Cum								
	For CC Road:-N-LIG 4th Block Back		1	22.00	20.00	0.15	66.00		
			1	8.00	5.00	0.15	6.00		
			1	8.00	6.00	0.15	7.20		
			1	20.00	12.00	0.15	36.00		
			1	10.00	8.00	0.15	12.00		
							127.20	4258.26	**541650.67**
5	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, using a grade concrete M30 over a prepared base with OPC coarse aggregate @ 0.69cum fine aggregate @ 0.46cum,coarse and fine aggregate confirming to IS:383-2016,with superplastisiser @3lts confirming to IS9103-2008mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, sclant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine,and curing including cost of all materials,labour,hire chargedof machines,all lead and lift charges etc., complete as per specifications. - do with OPC at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum Pg No.176Item No.22.6.1	Cum								
	For CC Road:-N-LIG 4th Block Back		1	22.00	20.00	0.15	66.00		
			1	8.00	5.00	0.15	6.00		
			1	8.00	6.00	0.15	7.20		
			1	20.00	12.00	0.15	36.00		
			1	10.00	8.00	0.15	12.00		
							127.20	5907.56	**751441.63**
6	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator,HOM of machinery screed vibratory,power floater,blade and disk etc.,with all lead and lift etc as per specifications . (Page No. 176 & Item No.22.7of PW, P&IWTD SR 2018-19)	Sqm							
	For CC Road:-N-LIG 4th Block Back		1	22.00	20.00		440.00		
			1	8.00	5.00		40.00		
			1	8.00	6.00		48.00		
			1	20.00	12.00		240.00		
			1	10.00	8.00		80.00		
							848.00	75.58	**64088.35**
	Basic Rate	68.00							
	Area Weightage 6%	4.08							
	Sub Total	72.08							
	Add +4.85% Above asTender premium	3.50							
	Total Rs	**75.58**							

							189.73	508.44	96467.00
10	KSRB 2 8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. Specification No. KBS Pg No 7, Item No 2 15	Cum							
	Footings:-F1		6	2.45	2.15	0.30	9.48		
	F2		5	2.15	1.85	0.30	5.97		
	F3		4	2.10	1.80	0.30	4.54		
	F4		2	1.40	1.40	0.30	1.18		
	Flooring:-Hall		1	16.90	8.70	0.15	22.05		
	Portica		1	2.70	2.50	0.15	1.01		
	Steps		1	2.90	1.90	0.15	0.83		
	Sump		1	4.90	3.30	0.30	4.85		
							49.90		
		A)Up to125% of quantity					10.58	2750.55	29087.00
		B)Above 125% of quantity					39.33	2750.55	108137.00
	Basic Rate	2429.00							
	Area Weightage 8%	194.32							
	Sub Total	2623.32							
	Add +4.85% Above asTender premium	127.23							
	Total Rs	2750.55							
11	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8(M7.5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2 Pg No.13 Item No 4.3	Cum							
	Footings:-F1		6	2.45	2.15	0.15	4.74		
	F2		5	2.15	1.85	0.15	2.98		
	F3		4	2.10	1.80	0.15	2.27		
	F4		2	1.40	1.40	0.15	0.59		
	Foundations:-Long Walls		2	18.05	0.75	0.10	2.71		
			1	6.60	0.75	0.10	0.50		
			1	2.75	0.75	0.10	0.21		
	Short Walls		3	4.15	0.75	0.10	0.93		
			3	4.25	0.75	0.10	0.96		
			1	2.10	0.75	0.10	0.16		
	Flooring:-Hall		1	16.90	8.70	0.15	22.05		
	Portica		1	2.70	2.50	0.15	1.01		
	Steps		1	2.90	1.90	0.15	0.83		
	Sump		1	4.90	3.30	0.15	2.43		
	Flagging Coarse for Alround		2	21.00	0.45	0.10	1.89		
			1	9.10	0.45	0.10	0.41		
	Flagging Concrete:-For All Round		2	21.00	0.75	0.10	3.15		
			1	9.10	0.75	0.10	0.68		
							48.49		
		A)Up to125% of quantity					32.63	5777.40	188488.00
		B)Above 125% of quantity					15.86	6200.10	98347.00
	Basic Rate	5102.00							
	Issue Rates Of 02/11/2021(180KG/50 X 103.69)	373.28							
		5475.28							
	Area Weightage 8%	438.02							
	Sub Total	5913.31							
	Add +4.85% Above asTender premium	286.80							
	Total Rs	6200.10							

12	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammerddressed in courses not less than 20 cms high, bond stones at 2m apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Pg No 25 item No 5.6	Cum								
	Foundations for1st Footing,s:- Long Walls		2	17.90	0.60	0.55	11.81			
			1	6.45	0.60	0.55	2.13			
			1	2.60	0.60	0.55	0.86			
	Short Walls		3	4.30	0.60	0.55	4.26			
			3	4.40	0.60	0.55	4.36			
			1	2.25	0.60	0.55	0.74			
	2nd Footing,s:- Long Walls		2	17.75	0.45	0.45	7.19			
			1	6.30	0.45	0.45	1.28			
			1	2.45	0.45	0.45	0.50			
	Short Walls		3	4.45	0.45	0.45	2.70			
			3	4.55	0.45	0.45	2.76			
			1	2.40	0.45	0.45	0.49			
	Basement:- Long Walls		2	17.75	0.45	0.35	5.59			
			1	6.30	0.45	0.35	0.99			
			1	2.45	0.45	0.35	0.39			
	Short Walls		3	4.45	0.45	0.35	2.10			
			3	4.55	0.45	0.35	2.15			
			1	2.40	0.45	0.35	0.38			
							50.67			
		A)Up to125% of quantity					44.73	5204.42	232768.00	
		B)Above 125% of quantity					5.95	5204.42	30940.00	
	Basic Rate	4596.00								
	Area Weightage 8%	367.68								
	Sub Total	4963.68								
	Add +4.85% Above asTender premium	240.74								
	Total Rs	5204.42								
13	KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed 2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No. 4.5 of PWD SR 2018-19)	Cum								
	Coping Concrete:- Long Walls		2	17.75	0.45	0.10	1.60			
			1	6.30	0.45	0.10	0.28			
			1	2.45	0.45	0.10	0.11			
	Short Walls		3	4.45	0.45	0.10	0.60			
			3	4.55	0.45	0.10	0.61			
			1	2.40	0.45	0.10	0.11			
	Flooring:-Hall		1	16.90	8.70	0.12	17.64			
	Portica		1	2.70	2.50	0.12	0.81			
	Steps		1	2.90	1.90	0.10	0.55			
	Sump Inside		1	3.80	2.25	0.10	0.86			
	Flagging Concrete:-For All Rooms		2	21.00	0.90	0.12	4.54			
			1	9.10	0.90	0.12	0.98			
	Main Entry Culvert Slabs Approaches		2	12.00	0.60	0.12	1.73			
							30.42	6033.32	183537.52	

12	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammerddressed in courses not less than 20 cms high, bond stones at 2m apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Pg No 25 item No 5.6	Cum							
	Foundations for1st Footing,s:- Long Walls		2	17.90	0.60	0.55	11.81		
			1	6.45	0.60	0.55	2.13		
			1	2.60	0.60	0.55	0.86		
	Short Walls		3	4.30	0.60	0.55	4.26		
			3	4.40	0.60	0.55	4.36		
			1	2.25	0.60	0.55	0.74		
	2nd Footing,s:- Long Walls		2	17.75	0.45	0.45	7.19		
			1	6.30	0.45	0.45	1.28		
			1	2.45	0.45	0.45	0.50		
	Short Walls		3	4.45	0.45	0.45	2.70		
			3	4.55	0.45	0.45	2.76		
			1	2.40	0.45	0.45	0.49		
	Basement:- Long Walls		2	17.75	0.45	0.35	5.59		
			1	6.30	0.45	0.35	0.99		
			1	2.45	0.45	0.35	0.39		
	Short Walls		3	4.45	0.45	0.35	2.10		
			3	4.55	0.45	0.35	2.15		
			1	2.40	0.45	0.35	0.38		
							50.67		
		A)Up to125% of quantity					44.73	5204.42	232768.00
		B)Above 125% of quantity					5.95	5204.42	30940.00
	Basic Rate	4596.00							
	Area Weightage 8%	367.68							
	Sub Total	4963.68							
	Add +4.85% Above asTender premium	240.74							
	Total Rs	5204.42							
13	KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed 2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No. 4.5 of PWD SR 2018-19)	Cum							
	Coping Concrete:- Long Walls		2	17.75	0.45	0.10	1.60		
			1	6.30	0.45	0.10	0.28		
			1	2.45	0.45	0.10	0.11		
	Short Walls		3	4.45	0.45	0.10	0.60		
			3	4.55	0.45	0.10	0.61		
			1	2.40	0.45	0.10	0.11		
	Flooring:-Hall		1	16.90	8.70	0.12	17.64		
	Portica		1	2.70	2.50	0.12	0.81		
	Steps		1	2.90	1.90	0.10	0.55		
	Sump Inside		1	3.80	2.25	0.10	0.86		
	Flagging Concrete:-For All Rooms		2	21.00	0.90	0.12	4.54		
			1	9.10	0.90	0.12	0.98		
	Main Entry Culvert Slabs Approaches		2	12.00	0.60	0.12	1.73		
							30.42	6033.32	183537.52

	C4		2	0.30	0.30	1.50	0.27		
	Plinth Beam:- Long Walls		2	17.30	0.20	0.45	3.11		
			1	6.20	0.20	0.45	0.56		
			1	2.90	0.20	0.45	0.26		
	Short Walls		3	4.20	0.20	0.45	1.13		
			3	4.30	0.20	0.45	1.16		
			1	2.50	0.20	0.45	0.23		
	Sump:-Bottom Slab		1	4.90	3.30	0.30	4.85		
	Side Walls		2	4.20	0.25	1.50	3.15		
			2	2.40	0.25	1.50	1.80		
	Cover Slab		1	4.30	2.85	0.15	1.84		
							58.16	6581.39	382801.20
26	KSRB 4.2.8 : Providing and laying in position reinforced cementconcrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum andfine aggregtes @ 0.47cum,with superplastisiser @3lts confirming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick,vibrated fo all works in ground Floor level for roof slabs ,staircase, lintels , beams, retaining walls ,return wall, walls (an thivck ness) including attached plasters ,columns, pillars,posts,struts butters,string or lacing courses ,parapets,coping,bed blocks,anchor blocks ,plain window cills,fillets including cost of all materials, labour,HOM of machinery, curing. complete as per specifications. No. KBS 4.1, 4.6, Pg No. 14, Item No. 4.12	Cum							
	Columns upto Lintel beam bottom:C1		6	0.45	0.30	2.10	1.70		
	C2		5	0.45	0.20	2.10	0.95		
	C3		4	0.45	0.20	2.10	0.76		
	C4		2	0.30	0.30	2.10	0.38		
	Columns upto Lintel to beam bottom:C1		6	0.45	0.30	0.70	0.57		
	C2		5	0.45	0.20	0.70	0.32		
	C3		4	0.45	0.20	0.70	0.25		
	C4		2	0.30	0.30	0.70	0.13		
	Parapet level:-C1		6	0.45	0.30	0.90	0.73		
	C2		5	0.45	0.20	0.90	0.41		
	C3		4	0.45	0.20	0.90	0.32		
	C4		2	0.30	0.30	0.90	0.16		
	Lintel Beam:- Long Walls		2	17.30	0.20	0.20	1.38		
	Short Walls		2	4.30	0.20	0.20	0.34		
			2	4.40	0.20	0.20	0.35		
	Staircase:-First Flight		1	3.20	1.35	0.12	0.52		
	Landing		1	3.00	1.35	0.12	0.49		
			1	1.50	1.35	0.12	0.24		
	Second flight		1	2.10	1.35	0.12	0.34		
	Steps		12	1.35	0.25	0.12	0.49		
	Ground Floor Roof		1	17.30	9.10	0.15	23.61		
			1	2.90	2.90	0.15	1.26		
	Tie Beam:- Long Walls		2	17.30	0.20	0.30	2.08		
			1	6.20	0.20	0.30	0.37		
			1	2.90	0.20	0.30	0.17		
	Short Walls		3	4.30	0.20	0.30	0.77		
			3	4.40	0.20	0.30	0.79		
			1	2.50	0.20	0.30	0.15		
	Center Beams		3	9.10	0.30	0.45	3.69		
							43.71		
	(-)Deductions Staire case		1	4.35	2.90	0.15	1.89		
							41.82		
		A)Up to125% of quantity					14.78	6845.24	101138.00
		B)Above 125% of quantity					27.05	7643.67	206730.00
	Basic Rate	6045.00							
	Issue Rates Of 02/11/2021(340KG/50 X 103.69)	705.09							

		6750.09								
	Area Weightage 8%	540.01								
	Sub Total	7290.10								
	Add +4.85% Above asTender premium	353.57								
	Total Rs	7643.67								
27	KSRB 4.2.8 - Providing and laying in position reinforced cementconcrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum andfine aggregtes @ 0.47cum,with superplastisiser @3lts confirming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick,vibrated fo all works in ground Floor level for roof slabs ,staircase, lintels , beams, retaining walls ,return wall, walls (an thivck ness) including attached plasters ,columns, pillars,posts,struts.butters,string or lacing courses ,parapets,coping,bed blocks,anchor blocks ,plain window cills,fillets including cost of all materials, labour,HOM of machinery, curing, complete as per specifications. No. KBS 4.1, 4.6, Pg No. 14, Item No. 4.12	Cum								
	Head Room:- C2		3	0.45	0.20	3.30	0.89			
	C3		1	0.45	0.20	3.30	0.30			
	Cut Lintel:-D1		1	1.80	0.20	0.20	0.07			
	V		1	2.10	0.20	0.20	0.08			
							1.34	6913.18	9291.31	
28	Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for R.C.C works laid in 15 cms thick layers and well compacted including vibrating, curing, etc for all super Structure works with all lead and Lift etc., complete (exclusive of cost of steel and fabrication charges) Ready mixed cement for concrete with M-25. Pg No.19 Item No.4.49.2	Cum								
	Head Room:- Slab		1	5.40	3.30	0.15	2.67			
	Beams		2	4.35	0.20	0.30	0.52			
			2	2.90	0.20	0.30	0.35			
							3.54	6224.69	22054.08	
29	KSRB 4.2.11 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 27.20kgs, with 12mm and down size graded granite metal coarse aggregates @0.5865cum and fine aggregtes @ 0.391cum, with superplastisiser @0.225lts, machine mixed, well compacted for plain chajja of 8.5 cms. average thickness, upto First Floor level, including cost of all materials, labour, HOM of machinery, finishing, curing, complete as per specifications. Specification No. KBS 4.1, 4.6 Pg No.15 Item no.4.20	Sqm								
	Ground Floor Chejja,s:-W		9	2.10	0.45		8.51			
	V		1	2.10	0.45		0.95			
							9.45	561.66	5307.69	
30	KSRB 4.2.11 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 27.20kgs, with 12mm and down size graded granite metal coarse aggregates @0.5865cum and fine aggregtes @ 0.391cum, with superplastisiser @0.225lts, machine mixed, well compacted for plain chajja of 8.5 cms. average thickness, upto First Floor level, including cost of all materials, labour, HOM of machinery, finishing, curing, complete as per specifications. Specification No. KBS 4.1, 4.6 Pg No.15 Item no.4.20	Sqm								

	Head Room :-V		1	2.10	0.45		0.95		
							0.95	572.96	541.45
31	KSRB 4.9.2 : Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Pg No.18 Item No.4.46.2	Tonne							
	Ground Floor	Qty Vide Item No-25			58.16	120.00	6979.70		
		Qty Vide Item No-26			41.82	110.00	4600.29		
		Qty Vide Item No-29			9.45	25.00	236.25		
							11816.25		
							11.82	88333.52	1043771.19
32	KSRB 4.9.2 : Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Pg No.18 Item No.4.46.2	Tonne							
	Head Room	Qty Vide Item No-27			1.34	110.00	147.84		
		Qty Vide Item No-28			3.54	110.00	389.73		
		Qty Vide Item No-30			0.95	25.00	23.63		
							561.20		
							0.56	89180.59	50047.70
33	KSRB 5-14.1: Providing and constructing load bearing walls with solid concrete blocks of size 400X200X200mm having block density not less than 1800kg/m3 having a minimum average compressive strength 5.00N/mm2 confirming to IS 2185 (part 1) :2005 and constructed with cement mortar 1:4,as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing, hire charges of machinaries etc., complete as per specifications. KBS No.5.4, Pg No. 27 Item No. 5.27.1	Sqm							
	Ground Floor:- Long Walls		2	17.30		3.30	114.18		
	Short Walls		2	4.30		3.30	28.38		
			2	4.40		3.30	29.04		
	(-)Deductions						171.60		
	Main Door		1	1.80		2.10	3.78		
	W		9	1.80		1.50	24.30		
	V		1	1.80		0.60	1.08		
	Lintel Beam:- Long Walls		2	17.30		0.20	6.92		
	Short Walls		2	4.30		0.20	1.72		
			2	4.40		0.20	1.76		
	Tie Beam:- Long Walls		2	17.35		0.30	10.41		
	Short Walls		2	4.05		0.30	2.43		
			2	4.15		0.30	2.49		
	Columns Up to Beam Level:-C1		6	0.30		2.10	3.78		
	C2		5	0.20		2.10	2.10		
	C3		4	0.20		2.10	1.68		
	C4		2	0.30		2.10	1.26		
	Beam Level:-C1		6	0.30		0.70	1.26		
	C2		5	0.20		0.70	0.70		
	C3		4	0.20		0.70	0.56		
	C4		2	0.30		0.70	0.42		
							66.65		

								104.95	1032.73	108385.00
34	KSRB 5-14.1. Providing and constructing load bearing wall with solid concrete blocks of size 400X150X200mm having block density not less than 1800kg/m3 having a minimum average compressive strength 5.00N/mm2 confirming to IS 2185 (part 1) :2005 and constructed with cement mortar 1:4,as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing, hire charges of machinaries etc., complete as per specifications. KBS No.5.4, Pg No. 27 Item No. 5.27.2	Sqm								
	Head Room:-Long Walls		2	4.75		3.60	34.20			
	Short Walls		2	2.90		3.60	20.88			
	Parapet Wall		2	17.30		0.90	31.14			
			2	4.30		0.90	7.74			
			2	4.40		0.90	7.92			
	Flagging Coarse for Alround		2	21.00		0.60	25.20			
			1	9.10		0.60	5.46			
	Main Entry Steps		4	2.70	0.90		9.72			
							142.26			
	(-)Deductions									
	D1		1	1.20		2.10	2.52			
	V		1	1.80		0.60	1.08			
	Cut Lintel		1	2.40		0.20	0.48			
	V		1	2.40		0.20	0.48			
	Columns:-C2		3	0.20		3.60	2.16			
	C3		1	0.20		3.60	0.72			
	Head Room Beams		2	4.35		0.30	2.61			
			2	2.90		0.30	1.74			
							11.79			
							130.47	1118.79	145969.00	
	Basic Rate	953.00								
	Add Lift Charges	35.00								
	Total	988.00								
	Area Weightage 8%	79.04								
	Sub Total	1067.04								
	Add +4.85% Above asTender premium	51.75								
	GrandTotal Rs	1118.79								
35	KSRB15-3.8 : Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners, wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications Pg No. 116,Item No.15.16	Sqm								
	External Plastering:-Long Walls		2	17.30		4.80	166.08			
			2	16.70		1.10	36.74			
	Short Walls		2	9.10		4.80	87.36			
			2	8.70		1.10	19.14			
	Chejja,s:-W		18	2.10	0.50		18.90			
	V		2	2.10	0.50		2.10			
	Columns-C1		12	0.25		4.80	14.40			
	C2		10	0.25		4.80	12.00			
	C3		8	0.25		4.80	9.60			
	C4		8	0.30		4.80	11.52			
	Roof Surface		1	16.70	8.70		145.29			
			1	2.70	2.50		6.75			
	Sump Side Walls		1	4.35		0.60	2.61			
			1	2.90		0.60	1.74			
							534.23			
	(-)Deduction:-D	0.50	1	1.80		2.10	1.89			
	W	0.50	9	1.80		1.50	12.15			
	V	0.50	1	1.80		0.60	0.54			
	Staircase		1	4.30	2.90		12.47			

42	KSRB 15-14.1 : Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications page no117 item no 15.49.1 . KSRB 15-14.1 Extra over Item 15-14.1 for applying oil bound washable distemper on ceiling and / or sloping roof as per specifications.Pg No 119,Item No15.49.2	Sqm								
	Ceiling				Quantity Vide Item NO-39			210.76	133.62	28161.75
43	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer. (P. No. 120, I.No. 15.53.2 of SR 2018-19).	Sqm								
	External painting				Quantity Vide Item NO-35			355.14		
		A)Up to125% of quantity						220.80	115.50	25502.40
		B)Above 125% of quantity						134.34	115.50	15517.00
	Basic Rate	102.00								
	Area Weightage 8%	8.16								
	Sub Total	110.16								
	Add +4.85% Above asTender premium	5.34								
	GrandTotal Rs	115.50								
44	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer. (P. No. 120, I.No. 15.53.2 of SR 2018-19).	Sqm								
	Head Room				Quantity Vide Item NO-36			68.19		
		A)Up to125% of quantity						47.40	124.56	5904.14
		B)Above 125% of quantity						20.79	124.56	2590.00
	Basic Rate	102.00								
	Add Lift Charges	8.00								
	Total	110.00								
	Area Weightage 8%	8.80								
	Sub Total	118.80								
	Add +4.85% Above asTender premium	5.76								
	GrandTotal Rs	124.56								
45	Providing and laying Hassan Green / River Pink granite flooring for staircase, treads and rises using pre polished 20 mm thick water cut green Granite slab laid over existing cement concrete bed in CM 1:3, average 20mm thick including full rounding for nosing , cutting 3 line grooves not more than 2 mm wide for antiskidding, including cost of all materials,mortar,labour,curing etc.,complete as per Specification.Pg No 110,Item No14.51	Sqm								
	Staire Case:-Treads		22	1.35		0.30	8.91			
	Riser		23	1.35		0.15	4.66			
	Landing		1	3.00	1.35		4.05			

65	Point wiring using copper wire without switch Supplying and wiring adopting loop system in existing PVC Conduit /casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet.**Medium Point Above 3m-6m.** (Page No 5/Item No 2.1.2)	Point								
			8				8.00	288.34	2306.72
66	Concealed Conduit System - Supplying heavy gauge PVC conduit pipe .....mm dia .....mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of unction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary.**25mm Dia,2mm Thick.** (Page No 2/Item No 1.2.2)	Rmtr								
			1	110.00			110.00	55.57	6112.70
67	Groove cutting : Supplying heavy gauge conduit PVC 25/2mm of s thick heavy with suitable size bend , metal junction boxes, adhesive pastes etc, by groove cutting in a wall and fixing by bracing U or J hooks and cement plastering up to the surface and run with 18SWG GI fish wire run throughout the conduit where ever necessary.**19/20mm Dia,2mm Thick.** (Page No 2/Item No 1.3.1)	Rmtr								
			1	90.00			90.00	53.47	4812.30
68	Groove cutting : Supplying heavy gauge conduit PVC 25/2mm of s thick heavy with suitable size bend , metal junction boxes, adhesive pastes etc, by groove cutting in a wall and fixing by bracing U or J hooks and cement plastering up to the surface and run with 18SWG GI fish wire run throughout the conduit where ever necessary.**25mm Dia,2mm Thick.** (Page No 2/Item No 1.3.2)	Rmtr								
			1	70.00			70.00	56.62	3963.40
69	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall **1-3 way** (Page No 9/Item No 3.4.1)	Each							
			8				8.00	99.61	796.88
70	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall **4-5 way** (Page No 9/Item No 3.4.2)	Each							
			8				8.00	110.09	880.72
71	Supplying 6A flush type socket and 6 amp flush type SP switch either surface/flush mountinh in existing gang box or in 4mm thik plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wire as required as per IS 1293 and IS 3654. **6AMP 3/5 and Switch.**(Page No 9/Item No 3.1.2)	No								
			8				8.00	138.40	1107.20

72	Supplying and mounting 2 Nos, of 2 Way 6amps flush type switches either surface/flush mounted on existing gang box or in 4mm thick plastic sheet and mounted on a flusg mounted wooden box and wiring as per IS 1293. (Page No 9/Item No 3.2)	Each							
			8				8.00	157.28	1258.24
73	Supply and fixing of bakelite D.P /socket/switch with/ without neon indicator over existing wood board or flush mounting in plastic plates/nitches as per IS 1293 and IS 3854.16Amps Combined Switch and socket with indication.(Page No 15/Item No 3.3.4)	No							
			8				8.00	203.41	1627.28
74	Electronic Stepped regulator.(Page No 15/Item No 3.3.5)	No							
			8				8.00	157.28	1258.24
75	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with lowconductor resistance single core in open or concealedsystem of wiring with specified IS-694 confirming to latestamendments1.5sqmm (Page No 6/Item No 2.3.2)	Rmtr							
			1	150.00			150.00	21.02	3153.00
76	Wiring for lighting / power circuit using one of FRLS PVCinsulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealedsystem of wiring with specified IS-694:confirming to latest amendments 2.5sqmm (Page No 6/Item No 2.3.3)	Rmtr							
			1	120.00			120.00	33.55	4026.00
77	Supplying and fixing Metal Fan Box with Round Hook(Page No 3/Item No 1.1.2)	Each							
			8				8.00	89.12	712.96
78	Supplying and fixing of slim box Fitting ,made out of CRCA sheet metal body with locking type holder completely wired Excluding Ballast &Flouresent Tube. 1X4' Tube light Fitting(Page No 69/Item No 12.4.2)	No.s							
			8				8.00	314.55	2516.40
79	Supplying capacitor type ceiling fan complete with down rod blades shackle, canopies etc, for operation on 230 volts, 50 cycles. single phase AC supply conforming to ISS-374-1979 and with double ball bearing system 48" sweep (1200mm)(Page No 46/Item No 7.3.1)	Each							
			8				8.00	2191.37	17530.96
80	Supplying and fixing hylum brand hand plastic sheet 3mm thick with necessary niches for fixing switches. regulators etc , and fixing on existing wood or metal box using N F.screws. (Pg. No. 17 It. No. 3.10).								
		Sqcm	1	4000.00			4000.00	0.23	922.68
	Rate	0.22							
	Add +4.85% Above asTender premium	0.01							
	Total Rs	0.23							
81	Fixing a ceiling /wall mounting fan of all capacities and as types to the existing S hook together with supplying and fixing a 5 ampers ceiling rose, necessary length of 23 / 0.0076 inch PVC insulated twin twisted copper wire and wiring completely. (Pg. No. 109 It. No. 17.8).								
		Each	8				8.00	145.74	1165.93

	Rate	139.00							
	Add +4.85% Above asTender premium	6.74							
	Total Rs	145.74							
82	Supplying and fixing of Procelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washers etc., complete a)63 Amps. (Pg. No. 45 It. No. 6.7.3).								
		Each	6				6.00	245.35	1472.09
	Rate	234.00							
	Add +4.85% Above asTender premium	11.35							
	Total Rs	245.35							
83	Supplying of 1.1 KV LT UG cable having aluminium conductor PVC extruded inner sheathed,galvanized, steel strip (except 2CX10Sqmm wire armoured) confirming to IS-3975:1990 (No. of strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A a) 4 core 16 sqmm. (Pg No. 55 It. No. 7.4.4).								
		Mtr	1	30.00			30.00	147.21	4416.28
	Rate	140.40							
	Add +4.85% Above asTender premium	6.81							
	Total Rs	147.21							
84	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe on wall / on pole as required. In existing trench / duct. a) 6 sqm to 16 sqmm. (Pg No. 61 It. No. 7.8.1).								
		Mtr	1	30.00			30.00	11.32	339.71
	Rate	10.80							
	Add +4.85% Above asTender premium	0.52							
	Total Rs	11.32							
85	Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete. (Pg No. 61 It. No. 7.9.1, 7.9.5)								
	b) C.C. cutting	Mtr	1	24.00			24.00	222.28	5334.77
	Rate	212.00							
	Add +4.85% Above asTender premium	10.28							
	Total Rs	222.28							
86	Supplying and fixing miniature circuit breakes on existing C8 distribution boards using necessary ruing materials and wiring complete as -1-d-red ,2. Group 'A'. (Pg. No. 47 It. No. 6.16.2, 6.16.4).								
	d) 40-63Amps DP, Group A	Each	8				8.00	1146.01	9168.08
	Rate	1093.00							
	Add +4.85% Above asTender premium	53.01							
	Total Rs	1146.01							
87	Supplying and flung of class A (medium duty) GI pipe of wall thick ness not less than 3.25mm on pole/wall/drain crossing with necessary eclamping arrangements for UG cable of 1.1 KV class. (Pg. No. 62 It. No. 7.12.1).								
	a) 40mm	Mtr	1	4.00			4.00	361.73	1446.93
	Rate	345.00							
	Add +4.85% Above asTender premium	16.73							
	Total Rs	361.73							

88	Fabricating supplying and mounting MS box made out SWG sealable ea floor / wall mounting, fully weather proof with provision for bolter heat dissipation . provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with 'necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished ii-r approved colour enameled metal pan etc.. complete. (Pg. No. 49 It. No. 6.40.2)								
	b)16 SWG	Each	1	4000.00			4000.00	0.35	1384.02
	Rate	0.33							
	Add +4.85% Above asTender premium	0.02							
	Total Rs	0.35							
89	Supplying and fixing regular MCB distribution boards on wall/woodboard / flush mounting using reputed calmps. bead, nuts etc.. with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coaled painting etc.. complete. II Double Door. .Group A.(Pg. No. 47 It. No. 6.17.III.10).								
	a) 12Way TP &N	Each	8				8.00	5387.19	43097.54
	Rate	5138.00							
	Add +4.85% Above asTender premium	249.19							
	Total Rs	5387.19							
90	Supplying exhaust fan of 1440 RPM of 300mm (12") size was bracket blades complete for light duty suitable to operate on 230V 50Hz. AC. (Pg. No. 78 It. No. 9.1).								
		Each	4				4.00	1782.45	7129.80
	Rate	1700.00							
	Add +4.85% Above asTender premium	82.45							
	Total Rs	1782.45							
91	Fixing one exhaust fan in the nitch already left in the wall with bolts and nuts and 5 amps. ceiling rose with sufficient length of 23/ 0.0076 inch PVC insulated twin core wire. (Pg. No. 109 It. No. 17.12).								
		Each	4				4.00	431.98	1727.93
	Rate	412.00							
	Add +4.85% Above asTender premium	19.98							
	Total Rs	431.98							
92	Supplying and ruing cast Aluminium round or oblong type but head fitting with GI wire guard, glass cover with 15Watts 230V CFL lamp. (Pg. No. 20 It. No. 4.4).								
		Each	6				6.00	998.17	5989.03
	Rate	952.00							
	Add +4.85% Above asTender premium	46.17							
	Total Rs	998.17							
93	Supply of recess mounted rolling type LED square or round Down light 12 watts with 4/6W GU 10 LED Lamp Rib Fabricated from Die cast aluminum with white powder coated prewired to mains connector with suitable driver & having swiveling unit of aluminum die cast eye ball & LED Lamp position retained by circular wire spring 5 years Warranty against any manufacturing defect working under standard electrical condition. (Pg. No. 25 It. No. 4.31).								
		Each	20				20.00	1958.60	39174.96

		Rate	1868.00							
		Add +4.85% Above asTender premium	90.60							
		Total Rs	1958.60							
94	Supplying, fixing. wiring. earth electrode for grounding conduits. I C. cutouts and other r requirements on the meter board using 40mm du 1.90 thick GL pipe 25 rob long buried in a pit. . The pa should be filled with equal proportion of salt and charcoal 150mm alround the pipe to complete depth. The connection from the pipe to the conduit etc. is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts. washers and checkouts etc. the pipe shall have 16 through holes of 122mm dia. (Pg. No. 55 It. No. 7.1).									
			Each	2				2.00	2859.26	5718.52
		Rate	2727.00							
		Add +4.85% Above asTender premium	132.26							
		Total Rs	2859.26							
95	Supplying box type suitable for 28W T5 single / twin Lamp 8 suspension mounted luminaire 8 optical reflector. Prewired with HF electronic Ballast. push fit type tamp holders holders 8 main connectors. Channel Cover shag be made of CRCA MS Sheet and finishing is done with stove enameled white with end caps made of engineering plastic 1x4' – 28 watts. (Pg. No. 20 It. No. 4.7.1)									
			Each	20				20.00	1038.02	20760.30
		Rate	990.00							
		Add +4.85% Above asTender premium	48.02							
		Total Rs	1038.02							
96	Fixing all types and as capacities fluorescent/ false ceiling/ spot light/ CFL fitting indoor on the wan/ ceiling/ rafters/ girders using 23/ 0.0076 twin twisted PVC insulated wires, required nos of round blocks and camps. A) On wall/ ceiling/ rafter/ girders. (Pg. No. 108 It. No. 17.7.1)									
			Each	20				20.00	102.75	2055.06
		Rate	98.00							
		Add +4.85% Above asTender premium	4.75							
		Total Rs	102.75							
									Sub Total Amount RS	6879481.25
									Add 12% of GST Charges RS	825537.75
97	Miscellaneous and unforcean Charges		L/S							981.00
									Grand Total RS	7706000.00
	(Rupees Seventy Seven Lakh Six Thousand Only)									

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2018-2019, Data rates, PWD Electrical 2019-20 approved Rate and Issued Rates

Assistant Engineer
Ward No-02

Executive Engineer
Yelahanka Division
BBMP

Assistant Executive Engineer
Yelahanka Sub Division
BBMP